CLAIMS

What is claimed:

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- 1. A method for treating or preventing a tumor necrosis factor-mediated disease in an individual in need thereof comprising co-administering a tumor necrosis factor antagonist and a CD4+ T cell inhibiting agent to the individual, in therapeutically effective amounts.
- 2. A method of Claim 1 wherein the tumor necrosis factor 10 antagonist and a CD4+ T cell inhibiting agent are administered simultaneously.
 - 3. A method of Claim 1 wherein the tumor necrosis factor antagonist and a CD4+ T cell inhibiting agent are administered sequentially
- 15 4. A method of Claim 1 wherein the tumor necrosis factormediated disease is selected from the group consisting
 of: autoimmune disease, acute or chronic immune
 disease, inflammatory disease and neurodegenerative
 disease.
- 20 5. A method of Claim 4 wherein the CD4+ T cell inhibiting agent is cyclosporin or analog thereof.
 - 6. A method of Claim 5 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody or fragment thereof.
- 25 7. A method of Claim 6 wherein the antibody is a chimeric antibody.

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- 8. A method of Claim 5 wherein the tumor necrosis factor antagonist is a receptor molecule which binds to tumor necrosis factor.
- 9. A method of Claim 8 wherein the receptor molecule is a tumor necrosis factor receptor/immunoglobulin G fusion protein.
 - 10. A method of Claim 5 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis, tumor necrosis release or its action on target cells.
 - 11. A method of Claim wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor.
 - 12. A method of Claim 11 wherein the phosphodiesterase inhibitor is pentoxifylline.
- 15 13. A method of Claim 10 wherein the tumor necrosis factor antagonist is thalidomide.
 - 14. A method of Claim 1 wherein an anti-inflammatory agent is administered in conjunction with the CD4+ T cell inhibiting agent and the tumor necrosis factor antagonist.
 - 15. A method for treating or preventing rheumatoid arthritis in an individual in need thereof comprising administering to the individual cyclosporin or analog thereof in combination with a tumor necrosis factor antagonist, in the apeutically effective amounts.
 - 16. A method of Claim 15 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody

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or fragment thereof.

- 17. A method of Claim 16 wherein the antibody is a chimeric antibody.
- 18. A method of Claim 15 wherein the tumor necrosis factor
 antagonist is a receptor molecule which binds to tumor
 necrosis factor.
 - 19. A method of Claim 18 wherein the receptor molecule is a tumor necrosis factor receptor/immunoglobulin G fusion protein.
 - 20. A method of Claim 15 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis tumor necrosis factor release or its action on target cells.
 - 21. A method of Claim 20 wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor.
 - 22. A method of Claim 21 wherein the phosphodiesterase inhibitor is pentoxifylline.
 - 23. A method for treating or preventing Crohn's disease in an individual in need thereof comprising administering to the individual cyclosporin or analog thereof in combination with a tumor necrosis factor antagonist, in therapeutically effective amounts.
 - 24. A method of Claim 23 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody or fragment thereof.
 - 25. A method of Claim 24 wherein the antibody is a

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chimeric antibody.

- 26. A method of Claim 23 wherein the tumor necrosis factor antagonist is a receptor molecule which binds to tumor necrosis factor.
- 27. A method of Claim 26 wherein the receptor molecule is a tumor necrosis factor receptor/immunoglobulin G fusion protein.
- 28. A method of Claim 23 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis, tumor necrosis factor release or its action on target cells.
- 29. A method of Claim 28 wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor.
- 30. A method of Claim 29 wherein the phosphodiesterase inhibitor is pentoxifylline.
 - 31. A method for treating or preventing acute or chronic immune disease associated with a transplantation in an individual comprising administering to the individual cyclosporin or analog thereof in combination with a tumor necrosis factor antagonist, in therapeutically effective amounts.
 - 32. A method of Claim 21 wherein the transplantation is selected from the group consisting of: renal transplantation, cardiac transplantation, bone marrow transplantation, liver transplantation, pancreatic transplantation, small intestine transplantation, skin transplantation and lung transplantation.

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33. A method of Claim 31 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody or fragment thereof.
34. A method of Claim 33 wherein the antibody is a chimeric antibody.
35. A method of Claim 31 wherein the tumor necrosis factor antagonist is a receptor molecule which binds to tumor necrosis factor.
36. A method of Claim 35 wherein the receptor molecule is

36. A method of Claim 35 wherein the receptor molecule is a tumor necrosis factor/immunoglobulin G fusion protein.

37. A method of Claim 33 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis, tumor necrosis factor release or its action on target cells.

- 38. A method of dlaim 37 wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor.
- 39. A method of Claim 38 wherein the phosphodiesterase inhibitor is pentoxifylline.
- 20 40. A composition comprising a tumor necrosis factor antagonist and a CD4+ T cell inhibiting agent.

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- 41. A composition of Claim 40 wherein the tumor necrosis factor antagonist is an anti-tumor necrosis factor antibody or fragment thereof.
- 25 47. A composition of Claim 41 wherein the antibody is a chimeric antibody and the CD4+ T cell inhibiting agent

is cyclosporin or an analog thereof.

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- 43. A composition of Claim 40 wherein the tumor necrosis factor antagonist prevents or inhibits tumor necrosis factor synthesis, tumor necrosis factor release or its action on target cells.
- 44. A composition of Claim 43 wherein the tumor necrosis factor antagonist is a phosphodiesterase inhibitor and the CD4+ T cell inhibiting agent is cyclosporin or an analog thereof.
- 10 45. A composition of Claim 44 wherein the phosphodiesterase inhibitor is pentoxifylline.